

REMARKS

This responds to the Office Action mailed on August 11, 2006, and the references cited therewith.

Claims 1, 8, 14, 21, and 27 are amended, claims 7, 11, 15, and 24 are canceled, and no claims are added; as a result, claims 1-6, 8-10, 12-14, 16-23, and 25-27 remain pending in this application.

§103 Rejection of the Claims

Claims 1-4, 14, 16-18, and 27 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Beard et al. (US 5,640,524; hereinafter “Beard”) in view of Applicant’s prior art (hereinafter “Kohn”), further in view of Cray Assembly Language Systems Reference Manual (hereinafter “Cray”).

Claims 5-6, 8-10, 12-13, 19-23 and 25-26 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Beard et al., Kohn, and Cray, further in view of Patterson et al., “Computer Architecture: A Quantitative Approach” (1996) (Patterson).

Applicant respectfully traverses these rejections because the proposed combinations of references fail to teach or suggest the entirety of the claims. For example, all of the independent claims, such as claim 1, include a vector register with operand values. The Office Action asserts Beard as providing such a teaching. However, Beard merely describes chaining instructions and Applicant is unable to find any teaching or suggestion of a vector register with operand values.

The Office Action further asserts that "the second vector instruction would necessarily need a vector of operand values in order to operate on the retrieved data words." However, since all the elements of the claims are not found in the reference, Applicant assumes that the Examiner is taking official notice of the missing elements. Applicant respectfully objects to the taking of official notice and, pursuant to M.P.E.P. § 2144.03, Applicant respectfully traverses the assertion of Official Notice and requests that the Examiner cite references in support of this position.

Nevertheless, Applicant has chosen to amend independent claims 1, 8, 14, and 21 to incorporate the language of cancelled claims 7, 11, 15, and 24, respectively, which were

indicated to be allowable if rewritten in independent form. Applicant has further amended claim 27 to include the language of cancelled claim 7.

Thus, Applicant respectfully submits that claims 1-6, 8-10, 12-14, 16-23, and 25-27 are in patentable form and request allowance of the claims.

Allowable Subject Matter

Claims 7, 11, 15 and 24 were objected to as being dependent upon a rejected base claim, but were indicated to be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

As noted above, Applicant has so amended independent claims 1, 8, 14, 21, and 27.

CONCLUSION

Applicant respectfully submits that the claims are in condition for allowance, and notification to that effect is earnestly requested. The Examiner is invited to telephone Applicant's attorney at (612) 373-6909 to facilitate prosecution of this application.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

Respectfully submitted,

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Date

January 11, 2007

By

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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being filed using the USPTO's electronic filing system EFS-Web, and is addressed to: Mail Stop Amendment, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 11 day of January 2007.

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